



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/824,491
				Filing Date	April 15, 2004
				First Named Inventor	Conrad et al
				Art Unit	1724
				Examiner Name	NIA Hopkins
				Attorney Docket Number	12811-401/PMdC
Sheet	1	of	5		

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
RAH	1	Re32257	Oct., 1986	Dyson	
	2	D305269	Dec., 1989	Dyson	
	3	D343707	Jan., 1994	Dyson	
	4	D382679	Aug., 1997	Dyson	
	5	D197459	Feb., 1964	Jepson et al.	
	6	RE32257	Oct., 1986	Dyson	
	7	D305269	Dec., 1989	Dyson	
	8	D343707	Jan., 1994	Dyson	
	9	D382679	Aug., 1997	Dyson	
	10	450372	Apr., 1891	Morse	
	11	883413	Mar., 1908	Mahony	
	12	1023082	Apr., 1912	Kluge	
	13	1127896	Feb., 1915	Keller	
	14	1369939	Mar., 1921	Shaffer	
	15	1752231	Mar., 1930	Clarkson	
	16	1759947	May., 1930	Lee	
	17	1798510	Mar., 1931	Winkslow et al.	
	18	1826798	Oct., 1931	Lee	
	19	1897144	Feb., 1933	Prouty	
RAH	20	1937765	Dec., 1933	Leathers	

FOREIGN PATENT DOCUMENTS						
Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
RAH	1	WO96/22726	Jan., 1996			
	2	WO96/19936	Apr., 1996			
	3	WO96/19937	Apr., 1996			
	4	WO96/19293	Jun., 1996			
	5	WO96/19294	Jun., 1996			
	6	WO96/21389	Jul., 1996			
	7	WO98/02080	Jan., 1998			
	8	WO98/27857	Feb., 1998			
RAH	9	WO98/10691	Mar., 1998			

Examiner Signature		Date Considered	2/2/06
--------------------	--	-----------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 10 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to be (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1460, Alexandria, VA 22313-1460.

If you need assistance in completing the form, call 1-800-PTO-0199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>		
				Application Number	10/824,491	
				Filing Date	April 15, 2004	
				First Named Inventor	Conrad et al	
				Art Unit	1724	
Examiner Name	NIA Hopkins					
Attorney Docket Number	12811-401/PMdC					
Sheet	2	of	5			

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number - Kind Code <sup>2</sup> (if known)				
RAH	1	2014287	Oct., 1935	Newman		
	2	2143421	Jan., 1939	Loehr et al.		
	3	2171248	Sep., 1939	Van Berkel		
	4	2267764	Dec., 1941	Taylor		
	5	2300266	Oct., 1942	Smellie		
	6	2392872	Jan., 1946	Wolfe		
	7	2397872	Apr., 1946	Kovacs		
	8	2397980	Apr., 1946	Petri		
	9	2402845	Jun., 1946	Rodman		
	10	2405625	Aug., 1946	Whiton et al.		
	11	2595752	May., 1952	Batts		
	12	2608268	Aug., 1952	Gerber		
	13	2672642	Mar., 1954	Tamarin et al.		
	14	2681124	Jun., 1954	Van der Kolk		
	15	2822060	Feb., 1958	Udovich		
	16	2993223	Jul., 1961	Krammes		
	17	3200568	Aug., 1965	McNeil		
	18	3235090	Feb., 1966	Bose et al.		
	19	3283480	Nov., 1966	Szego		
RAH	20	3320727	May., 1967	Farley et al.		

FOREIGN PATENT DOCUMENTS						
Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
RAH	1	WO98/23381	Apr., 1998			
	2	WO98/33424	Jun., 1998			
	3	WO 98/33424	Aug. 1998			
	4	WO 98/27857	Jul., 1998			
	5	WO 98/23381	Jun., 1998			
	6	WO 95/16382	Jun., 1995			
	7	WO 98/10691	Mar. 1998			
	8	WO 98/02080	Jan., 1998			
RAH	9	FR 1 094 603	May. 1955			

Examiner Signature		Date Considered	2/2/06
--------------------	--	-----------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1480, Alexandria, VA 22313-1480.

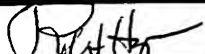
If you need assistance in completing the form, call 1-800-PTO-6198 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1448A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	10/824,491
				Filing Date	April 15, 2004
				First Named Inventor	Conrad et al
				Art Unit	1724
				Examiner Name	NA Hopkins
(Use as many sheets as necessary)				Attorney Docket Number	12811-491/PMdC
Sheet	3	of	5		

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
PCAT	1	3425192	Feb., 1969	Davis	
	2	3501014	Mar., 1970	Fitch, Jr. et al.	
	3	3535854	Oct., 1970	Taylor	
	4	3675268	Jul., 1972	Nordeen	
	5	3853518	Dec., 1974	Tu et al.	
	6	3877902	Apr., 1975	Eriksson et al.	
	7	3925045	Dec., 1975	Cheng	
	8	3955236	May., 1976	Mekelburg	
	9	4005998	Feb., 1977	Gorman	
	10	4141698	Feb., 1979	Kihlstedt et al.	
	11	4162149	Jul., 1979	Mekelburg	
	12	4172710	Oct., 1979	Van Der Molen	
	13	4198290	Apr., 1980	Summers	
	14	4251241	Feb., 1981	Bothun	
	15	4251368	Feb., 1981	Colman et al.	
	16	4268288	May., 1981	Coombs	
	17	4326862	Apr., 1982	Suzuki	
	18	4345572	Aug., 1982	Suzuki et al.	
	19	4352681	Oct., 1982	Dietz	
PCAT	20	4373228	Feb., 1983	Dyson	

FOREIGN PATENT DOCUMENTS						
Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
PCAT	1	EP 0 839 489	May, 1998			
	2	EP 0 815 788	Jan., 1998			
	3	EP 0836 827	Apr., 1998			
	4	DK 52195	Sep., 1936			
	5	DK 52195	Sep., 1963			
	6	CA 54488	May, 1985			
	7	DK 69708	Aug, 1949			
	8	DK 69708	Jan., 1949			
JICAT	9	SU 148023	1961			

Examiner Signature		Date Considered	2/2/06
--------------------	---	-----------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.1). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 10 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to be (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	10/824,491
				Filing Date	April 15, 2004
				First Named Inventor	Conrad et al
				Art Unit	1724
				Examiner Name	NIA Hopkins
Sheet	4	of	5	Attorney Docket Number	12811-401/PMDC

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
RAH	1	4377882	Mar., 1983	Dyson	
	2	4390426	Jun., 1983	Vicard	
	3	4398928	Aug., 1983	Kunsagi	
	4	4443234	Apr., 1984	Carlsson	
	5	4571772	Feb., 1986	Dyson	
	6	4573236	Mar., 1986	Dyson	
	7	4588423	May., 1986	Gillingham et al.	
	8	4593429	Jun., 1986	Dyson	
	9	4643748	Feb., 1987	Dyson	
	10	4665582	May., 1987	Richmond et al.	
	11	4756729	Jul., 1988	Brunnmair et al.	
	12	4826515	May., 1989	Dyson	
	13	4853008	Aug., 1989	Dyson	
	14	4853011	Aug., 1989	Dyson	
	15	4905341	Mar., 1990	Sunagawa et al.	
	16	5062870	Nov., 1991	Dyson	
	17	5078761	Jan., 1992	Dyson	
	18	5090976	Feb., 1992	Dyson	
	19	5101532	Apr., 1992	Dyson et al.	
RAH	20	5145499	Sep., 1992	Dyson	

FOREIGN PATENT DOCUMENTS						
Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
RAH	1	SU 148023	Mar. 1961			
	2	GB 762070	Dec. 1950			
	3	SU 1042812	1983			
	4	CA 2104136	Jun., 1994	METALLGESELLSCHAFT AG		
	5	CA 2156069	Jun., 1996	FRANCE GRIGNOTAGE (SARL)		
	6	WO 96/27446	Sep. 1996			
	7	FR 1 016 090	Oct., 1952			
	8	GB 2 108 013	May. 1983			
RAH	9	DE 34 35 214	Apr., 1986			

Examiner Signature	<i>RAH</i>	Date Considered	2/2/06
--------------------	------------	-----------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw the through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.87 and 1.88. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1460, Alexandria, VA 22313-1460.

If you need assistance in completing the form, call 1-800-PTO-6169 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>		
				Application Number	10/824,491	
				Filing Date	April 15, 2004	
				First Named Inventor	Conrad et al	
				Art Unit	1724	
Examiner Name	N/A Hopkins					
Attorney Docket Number	12811-401/PMdC					
Sheet	5	of	5			

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number - Kind Code <sup>2</sup> (if known)				
KAT	1	5160356	Nov., 1992	Dyson		
	2	5254147	Oct., 1993	Finke		
	3	5267371	Dec., 1993	Soler et al.		
	4	5307538	May., 1994	Rench et al.		
	5	5350432	Sep., 1994	Lee		
	6	5558697	Sep., 1996	Dyson et al.		
	7	5564160	Oct., 1996	Luebbering		
	8	5584095	Dec., 1996	Redding et. al.		
	9	5591253	Jan., 1997	Altman et al.		
	10	5755007	May., 1998	Dyson		
	11	5779745	Jul., 1998	Kilstrom		
	12	5935279	Aug., 1999	Kilstrom		
	13	5950274	Sep., 1999	Kilstrom		
	14	6003196	Dec., 1999	Wright et al.		
	15	6012200	Jan., 2000	Murphy et al.		
	16	6146434	Nov., 2000	Scalfani et al.		
	17	6168716	Jan., 2001	Conrad et al.		
	18	6277278	Aug., 2001	Conrad et al.		
82AH	19	6312594	Nov., 2001	Conrad et al		

FOREIGN PATENT DOCUMENTS							
Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)					
KAT	1	DE 1 251 139	Sep., 1967				
	2	82 00451	Feb., 1982				
	3	FR 2 670 137	Jun., 1992				
	4	FR 1 037 980	Sep., 1953				
	5	DE 260 776	Nov. 1926				
82AH	6	NL 6 400 783	Aug. 1964				
	7	EP 0 408 862	Jan., 1991				

Examiner Signature		Date Considered	2/2/06
--------------------	--	-----------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Code of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.87 and 1.88. The information is required to obtain or retain a benefit by the public which is to be (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1460, Alexandria, VA 22313-1460.

If you need assistance in completing the form, call 1-800-PTO-8199 and select option 2.